

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.08.2013
Date of Reporting : 18.08.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
34582	1850	36432	50.05	30283	430	30713	50.33	758.1	23.75

* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages* (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	10.28	14.28		24.56	100.34	98.16	-2.18	122.72	0.00
Haryana	51.29	0.55		51.84	68.47	69.82	1.35	121.66	0.00
Rajasthan	53.53	7.39	10.41	71.32	53.24	46.35	-6.89	117.67	0.00
Delhi	24.03			24.03	60.45	57.56	-2.89	81.59	0.02
UP	109.81	4.42	1.20	115.43	113.70	109.79	-3.90	225.22	22.03
Uttarakhand		20.94		20.94	13.31	13.06	-0.25	34.00	0.00
HP		22.88		22.88	0.63	0.09	-0.54	22.97	0.00
J & K		13.67	0.00	13.67	13.96	13.83	-0.13	27.50	1.70
Chandigarh				0.00	5.38	4.77	-0.61	4.77	0.00
Total	248.93	84.12	11.61	344.66	429.47	413.43	-16.04	758.09	23.75

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	5587	0	-70	1844	4724	0	-397	1852	44.23	
Haryana	5832	0	219	602	4801	0	48	598	13.83	
Rajasthan	5579	0	-272	46	4680	0	-417	130	2.66	
Delhi	3734	0	-45	94	2973	0	-214	-124	-0.97	
UP	9565	1750	121	633	9965	430	-164	955	16.90	
Uttarakhand	1636	0	162	30	1347	0	-112	21	-0.60	
HP	1013	0	82	-1165	797	0	-132	-1028	-24.47	
J&K	1401	100	87	-347	835	0	-97	-635	-10.74	
Chandigarh	236	0	-5	-10	161	0	-22	-30	0.03	
Total	34582	1850	279	1726	30283	430	-1508	1740	40.87	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU	
										UI (OG:(+ve), UG: (-ve))
A. NTPC	Singrauli STPS	2000	1935	2065	1512	37.34	1556	36.45	0.89	
	Rihand I STPS	1000	920	991	670	16.67	695	16.81	-0.14	
	Rihand II STPS	1000	470	503	343	8.52	355	8.63	-0.12	
	Rihand III STPS	500	485	514	340	8.99	375	9.08	-0.09	
	Dadri I STPS	840	600	429	324	7.04	293	7.46	-0.41	
	Dadri II STPS	980	975	937	700	18.44	768	18.68	-0.24	
	Unchahar I TPS	420	391	309	304	6.83	285	6.94	-0.11	
	Unchahar II TPS	420	404	334	307	6.98	291	7.03	-0.06	
	Unchahar III TPS	210	201	173	154	3.47	145	3.49	-0.02	
	ISTPP (Jhajjar)	1500	1470	464	343	7.55	315	7.84	-0.29	
	Dadri GPS	830	523	194	194	4.44	185	4.89	-0.45	
	Anta GPS	419	405	252	242	5.81	242	5.83	-0.02	
	Auraiya GPS	663	625	156	160	3.67	153	4.15	-0.49	
	Sub Total (A)	10782	9403	7321	5593	135.74	5656	137.28	-1.54	
	B. NPC	NAPS	440	295	332	330	7.05	294	7.08	-0.04
		RAPS- B	440	399	438	445	9.53	397	9.58	-0.04
		RAPS- C	440	410	405	237	6.95	290	9.84	-2.89
Sub Total (B)		1320	1104	1175	1012	23.53	981	26.50	-2.96	
C. NHPC	Chamera I HPS	540	534	540	540	12.94	539	12.82	0.13	
	Chamera II HPS	300	300	0	0	0.09	4	0.00	0.09	
	Chamera III HPS	231	0	0	0	0.00	0	0.00	0.00	
	Bairasuil HPS	180	179	179	179	4.26	177	4.12	0.14	
	Salal-HPS	690	665	668	669	15.92	663	15.93	-0.01	
	Tanakpur-HPS	94	21	0	93	0.49	20	0.51	-0.02	
	Uri-HPS	480	304	332	285	6.02	251	7.39	-1.37	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	387	411	264	8.78	366	8.68	0.10	
	Sewa-II HPS	120	119	126	124	2.93	122	2.94	-0.01	
	Sub Total (C)	3305	2509	2256	2154	51.42	2143	52.38	-0.96	
D. NJPC	Nathpa Jhakri	1500	1592	1613	1626	38.00	1583	38.14	-0.14	
	Sub Total (D)	1500	1592	1613	1626	38.00	1583	38.14	-0.14	
E. THDC	Tehri HPS	1000	1060	1060	1049	25.40	1058	25.25	0.15	
	Koteshwar HPS	400	360	362	358	8.66	361	8.64	0.01	
	Sub Total (E)	1400	1420	1422	1407	34.06	1419	33.89	0.16	
F. BBMB	Bhakra HPS	1480	1191	1342	1096	29.42	1226	28.57	0.85	
	Dehar HPS	990	610	825	610	15.27	636	14.63	0.64	
	Pong HPS	396	366	372	372	9.04	377	8.78	0.26	
	Sub Total (F)	2866	2166	2539	2078	53.73	2239	51.99	1.74	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	221	5.24	218	4.80	0.44	
	KWHEP HPS(IPP)	1000	0	1197	1169	28.31	1179	28.51	-0.20	
	Malana Stg-II HPS	100	0	113	113	2.71	113	2.52	0.18	
	Shree Cement TPS	300	0	129	117	2.92	122	3.02	-0.10	
	Budhil HPS(IPP)	70	0	75	75	1.15	48	1.68	-0.53	
	Sub Total (G)	1662	0	1744	1695	40.31	1680	40.53	-0.22	
H. Total Regional Entities (A-G)	22836	18194	18070	15565	376.80	15700	380.71	-3.91		

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)	
Punjab	Guru Gobind Singh TPS (Ropar)	1260	170	170	3.80	158	
	Guru Nanak Dev TPS(Bhatinda)	440	80	80	1.68	70	
	Guru Hargobind Singh TPS(L.mbt)	920	203	274	4.80	200	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	453	524	10.28	428	
	Total Hydro	1148	713	533	14.28	595	
	Total Punjab	3768	1166	1057	24.56	1023	
Haryana	Panipat TPS	1367	358	382	8.88	370	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	193	161	4.11	171	
	RGTPP (khedar) (IPP)	1200	769	757	18.57	774	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	961	660	19.74	822	
	Thermal (Total)	4944	2281	1960	51.29	2137	
	Total Hydro	62	23	20	0.55	23	
		Total Haryana	5006	2304	1980	51.84	2160
	Rajasthan	kota TPS	1240	492	447	10.90	454
suratgarh TPS		1500	621	565	13.50	563	
Chabra TPS		500	224	195	4.85	202	
Dholpur GPS		330	0	98	0.66	28	
Ramgarh GPS		111	30	28	0.77	32	
RAPS A (NPC)		300	176	176	4.10	171	
Barsingsar (NLC)		250	92	89	2.07	86	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		1080	344	230	5.64	235	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	527	440	11.03	460	
Thermal (Total)		6956	2506	2268	53.53	2230	
Total Hydro		550	301	241	7.39	308	
Wind power		2191	520	384	9.11	379	
Biomass		91	31	31	0.74	31	
Solar		201	0	0	0.57	24	
Renewable/Others (Total)		2483	551	415	10.41	434	
		Total Rajasthan	9989	3358	2924	71.32	2972
UP		Anpara TPS	1630	1353	1354	28.80	1200
	Obra TPS	1288	354	499	11.00	458	
	Paricha TPS	1140	930	916	19.70	821	
	Panki TPS	210	0	50	0.30	13	
	Harduaganj TPS	665	158	388	6.00	250	
	Tanda TPS (NTPC)	440	289	386	8.44	352	
	Roza TPS (IPP)	1200	972	833	19.94	831	
	Anpara-C (IPP)	1200	765	697	15.26	636	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	41	0.37	15	
	Thermal (Total)	8223	4821	5164	109.81	4575	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	277	167	4.42	184	
	Cogeneration	981	50	50	1.20	50	
		Total UP	10131	5148	5381	115.43	4809
	Uttarakhand	Total Hydro	1303	857	896	20.94	872
Total Uttarakhand		1303	857	896	20.94	872	
Delhi	Rajghat TPS	135	42	42	0.94	39	
	Delhi Gas Turbine	282	82	83	1.88	78	
	Pragati Gas Turbine	330	266	259	6.49	270	
	Riithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	243	204	5.48	228	
	Badarpur TPS (NTPC)	705	450	420	9.24	385	
	Thermal (Total)	2232	1083	1008	24.03	1001	
		Total Delhi	2232	1083	1008	24.03	1001
HP	Baspa HPS (IPP)	330	336	305	7.62	317	
	Malana HPS (IPP)	86	76	55	1.62	67	
	Other Hydro	589	596	574	13.65	569	
		Total HP	1005	1008	934	22.88	954
J & K	Baglihar HPS (IPP)	450	438	438	10.46	436	
	Other Hydro	323	132	137	3.21	134	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	570	575	13.67	570
Total State Control Area Generation		34390	15494	14755	344.66	14361	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2830	534	39.08	1628	
Total Regional Availability(Gross)		57226	36394	30854	760.53	31689	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9370	8768	213.45	8894
State Control Area Hydro	5368	3749	3366	84.12	3505
Total Regional Hydro	15731	13119	12134	297.58	12399

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	-500	-500	0	-500	0.00	11.21	-11.21
Gwalior-Agra (D/C)	1429	370	1429	0	19.17	0.00	19.17
Zerda-Kankroli	-73	-306	0	342	0.00	5.65	-5.65
Zerda-Bhinmal	-47	-301	0	357	0.00	5.20	-5.20
Malanpur-Auraiya	-92	-74	0	77	0.00	1.13	-1.13
Badod-Kota/Morak	-14	-113	0	141	0.00	1.57	-1.57
Mundra-Mohindergarh(HVDC)	998	680	998	0	17.12	0.00	17.12
Sub Total WR	1701	-244			36.29	24.76	11.53
Pusauli Bypass	-260	-300	0	349	0.00	5.42	-5.42
MZP- GKP (D/C)	507	489	800	0	13.80	0.00	13.80
Patna-Balia(D/C)	329	290	476	0	8.64	0.00	8.64
B'Sharif-Balia (D/C)	123	155	210	0	3.89	0.00	3.89
Pusauli-Balia	54	-6	54	6	0.00	0.52	-0.52
Gaya-Fatehpur (765 Kv)	26	-52	27	89	0.03	0.00	0.03
Pusauli-Sahupuri	140	149	205	0	3.57	0.00	3.57
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-38	0	45	0.00	0.80	-0.80
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	247	91	271	0	4.37	0.00	4.37
Sub Total ER	1129	778			34.29	6.74	27.55
Total IR Exch	2830	534			70.58	31.50	39.08

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
28.50	3.82	32.32	-9.51	40.49	-0.47	-25.13	3.14	-3.14

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
25.48	38.77	64.24	27.55	11.53	39.08	2.07	-27.23	-25.17

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.10	74.30	1.40	74.20	77.70	25.70

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz	Index			
50.46	4.23	49.68	19.09	50.11	0.29	0.14	50.48	49.87

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	417	04:07	403	20:07	0.0	0.0	0.0	0.0
Gorakhpur	400	420	08:00	409	16:00	0.0	0.0	0.0	0.0
Bareilly	400	421	04:10	394	14:15	0.0	0.0	0.4	0.0
Kanpur	400	423	04:22	407	14:14	0.0	0.0	10.1	0.0
Dadri	400	424	04:11	403	19:52	0.0	0.0	15.5	0.0
Ballabgarh	400	432	03:14	407	19:54	0.0	0.0	45.1	2.7
Bawana	400	424	03:12	405	19:53	0.0	0.0	21.1	0.0
Bassi	400	432	03:09	397	19:52	0.0	0.0	37.2	2.4
Hissar	400	416	03:16	397	19:46	0.0	0.0	0.0	0.0
Moga	400	420	03:17	402	19:52	0.0	0.0	0.0	0.0
Abdullapur	400	418	04:23	401	19:53	0.0	0.0	0.0	0.0
Nalagarh	400	416	04:08	403	14:47	0.0	0.0	0.0	0.0
Kishenpur	400	424	03:03	408	19:31	0.0	0.0	16.0	0.0
Wagoora	400	422	01:12	400	19:28	0.0	0.0	2.3	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	778	04:23	740	19:53	0.0	0.2	0.0	0.0
Balia	765	762	06:07	737	19:53	0.0	6.0	0.0	0.0
Moga	765	792	03:45	757	19:53	0.0	0.0	0.0	0.0
Agra	765	816	03:15	764	19:52	0.0	0.0	23.4	0.0
Bhiwani	765	806	03:17	767	19:53	0.0	0.0	11.2	0.0
Unnao	765	766	04:23	737	19:51	0.0	3.3	0.0	0.0

IX. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	506.77	1396.66	487.96	644.48	1484.00	877.82
Pong	426.72	384.05	421.05	931.43	405.91	344.07	2049.09	513.27
Tehri	829.79	740.04	819.35	988.00	818.65	982.26	729.35	555.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	953.02	347.96
Rihand	268.22	252.98	257.89	196.40	260.12	311.30	NA	NA
RPS	352.80	343.81	345.25	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	521.67	144.00	502.54	144.00	926.24	134.45

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 17.08.2013 :

1. Scattered Rain

XIII. Synchronisation of new generating units :

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

1. Dhauliganga (280 MW) closed down till 30.09.2013 due to flooding of power house.
2. Vishnuprayg(UPPCL) (400 MW) Closed due to High Silt level in river water.

Report for : 17.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER